





High density integrated semiconductor memory and method for producing the memory

Patent number: DE19600307
Publication date: 1998-01-08
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Classification:
- **International:** H01L27/115; H01L21/8247; G11C16/02
- **European:** H01L21/8247M8V, H01L27/115
Application number: DE19961000307 19960105
Priority number(s): DE19961000307 19960105

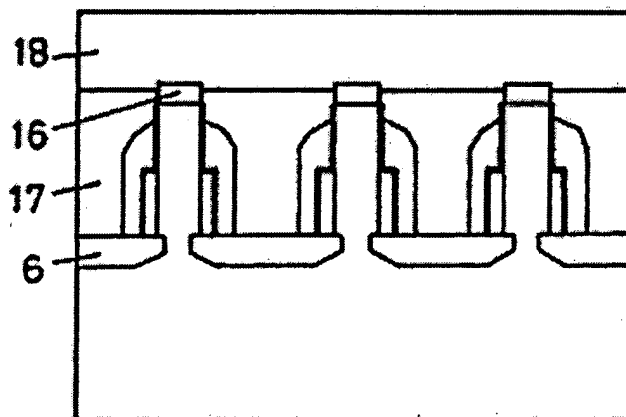
Also published as:

 WO9725744 (A1)
 EP0956592 (A1)
 US6157060 (A1)
 RU2153210 (C2)

Abstract not available for DE19600307

Abstract of correspondent: **US6157060**

The high density integrated semiconductor memory has an EPROM cell in the form of a pillar. The cell has a floating gate and a control gate. The EPROM cell is dimensioned so thin that it is fully depleted. The control gate of the preferred split gate flash EPROM cell or of the dual gate flash EPROM cell is composed of p+-doped semiconductor material, so that the fully depleted cylinders exhibit superior lower threshold behavior.



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